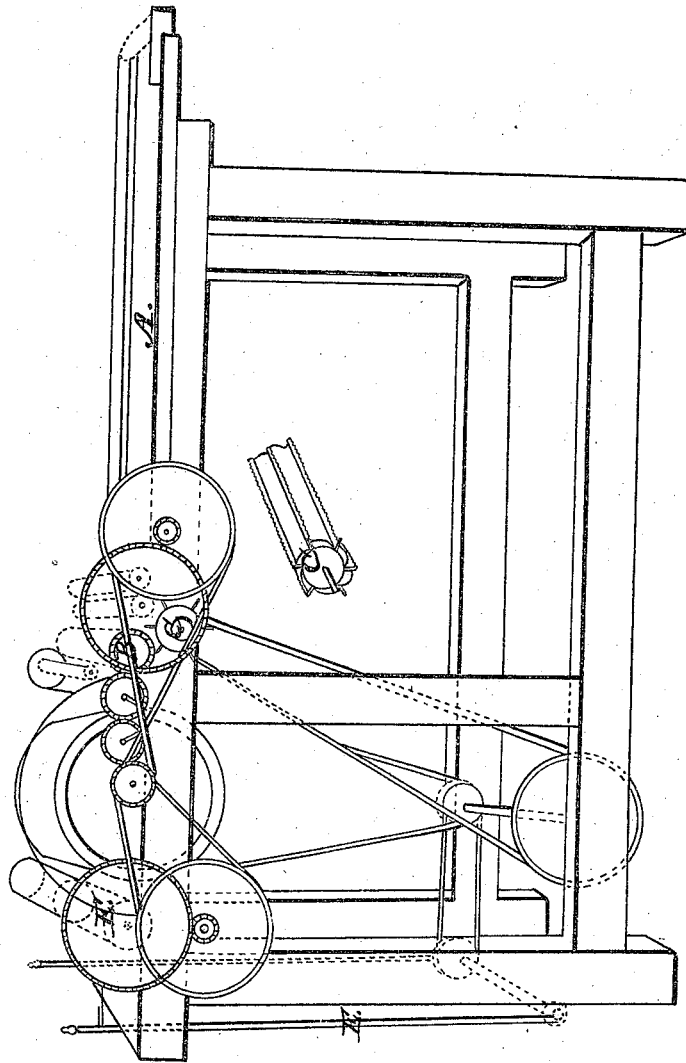


*Wolcot & Brown.*  
*Wool Cleaning Mach.*

*N<sup>o</sup> 427.*

*Patented Oct. 18, 1837.*



# UNITED STATES PATENT OFFICE.

JOSIAH WOLCOTT, JR., AND CHARLES W. BROWN, OF ROXBURY, MASSACHUSETTS.

MACHINE FOR CLEANING WOOL OF BURS AND OTHER FOREIGN SUBSTANCES.

Specification of Letters Patent No. 427, dated October 18, 1837.

*To all whom it may concern:*

Be it known that we, JOSIAH WOLCOTT, Jr., and CHARLES W. BROWN, of Roxbury, in the county of Norfolk and Commonwealth of Massachusetts, have invented a new and Improved Mode of Cleaning Wool of Burs and other Foreign Subjects by means of a piece of machinery called the "fly;" and we do hereby declare that the following is a full and exact description of our said improvement.

The fly is represented by the figures marked C on the drawing hereto annexed, and is in structure a cylinder with several iron or steel plates attached to it. The plates are about the eighth of an inch thick, from an inch to an inch and a quarter wide, and corresponding in length with the length of the cylinder. The number of plates commonly used is from four to six, but more than six may in some cases be necessary. The plates are placed upon the cylinder edgewise, like the floats of a water-wheel, the outer edge is usually cut with teeth, like the teeth of a saw. These plates are called comb, or saw plates.

To enable others skilled in the art to make and use our invention, we will proceed to describe its operation.

The fly is used, in connection with a machine, in many respects like a common carding machine, as it is represented by the drawing hereto annexed. It is placed directly under another cylinder in the machine, called the porcupine or card cylinder,

and is provided with suitable bands and pulleys to give it a rapid motion, and is moved by the same power which puts in motion the other parts of the machine. Its motion is in a direction contrary to that of the card cylinder, and they move as near to each other as possible, without bringing the edge or teeth of the comb plates in contact with the teeth of the porcupine or card cylinder. The teeth of the card, upon the card cylinder, receives the wool from the feed frame in the usual manner with the bur in it, and in the revolutions of the cylinder, the wool is carried in the first place in a downward direction, and the fly in its rapid revolutions, in a contrary direction, strikes the wool, with the comb plates, and knocks, or combs the bur and other dirty substances entirely from it. By this operation the wool is most thoroughly cleansed, without receiving the least damage in its fiber, or otherwise, nor does the card receive any injury.

What we claim as our invention and desire to secure by Letters Patent is—

The combination of the fly or picking cylinder with the porcupine or card cylinder substantially as above described.

September 5th, 1836.

JOSIAH WOLCOTT, JR.  
CHARLES W. BROWN.

Witnesses:

S. LELAND,  
C. LELAND.